SPR Antibody / Sepiapterin reductase (RQ4394)

Catalog No.	Formulation	Size
RQ4394	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P35270
Applications	Western blot: 0.5-1ug/ml Direct ELISA: 0.1-0.5ug/ml (recombinant human protein) (BSA-free format available)
Limitations	This SPR antibody is available for research use only.



Western blot testing of 1) human HepG2 and 2) mouse HEPA1-6 cell lysate with SPR antibody at 0.5ug/ml. Predicted molecular weight ~28 kDa.

Description

Sepiapterin reductase is an enzyme that in humans is encoded by the SPR gene. This gene encodes an aldo-keto reductase that catalyzes the NADPH-dependent reduction of pteridine derivatives and is important in the biosynthesis of tetrahydrobiopterin (BH4). Mutations in this gene result in DOPA-responsive dystonia due to sepiaterin reductase deficiency. A pseudogene has been identified on chromosome 1.

Application Notes

Optimal dilution of the SPR antibody should be determined by the researcher.

Immunogen

A human partial recombinant protein corresponding to amino acids V36-K261 was used as the immunogen for the SPR antibody.

Storage

After reconstitution, the SPR antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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